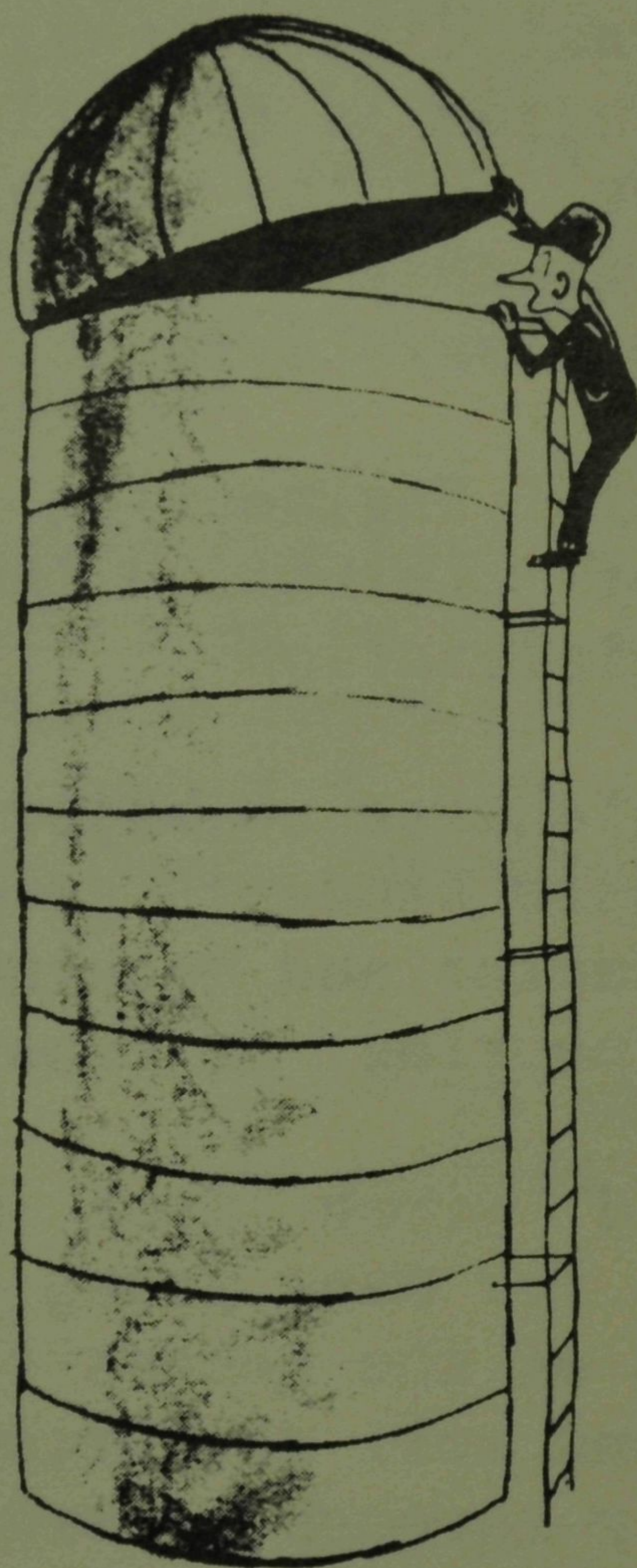


**1980
Engineering Open House**



ANSWERS FOR THE EIGHTIES

Agricultural Engineering

College of Engineering
University of Illinois at Urbana-Champaign
Friday, March 7, 10 a.m. to 6 p.m.
Saturday, March 8, 9 a.m. to 3 p.m.

Agricultural Engineering
The Profession with America's Future

1980 ENGINEERING OPEN HOUSE
March 7 and 8, 1980

Welcome to Agricultural Engineering Open House. The Department of Agricultural Engineering bridges the gap between two great disciplines, engineering and agriculture. The program is actually a part of the College of Engineering, but the cooperation and interaction between the Agricultural Engineers and the College of Agriculture are always evident.

The Agricultural Engineering curriculum offers a student a choice of interests. The curriculum has four areas of specialization.

Many students choose to major in Power and Machinery. After these students graduate, they may be engaged in farm tractor and machinery development, design, plant engineering, or consulting.

The Soil and Water area provides excellent opportunities for many young engineers. An increasing awareness of the necessity for the planned use of our water and soil resources on every level of activity--county through international--has set new standards for the engineers who must cope with problems of water shortage, flood control, and optimization of agronomic production through more efficient drainage, irrigation, and erosion control practices.

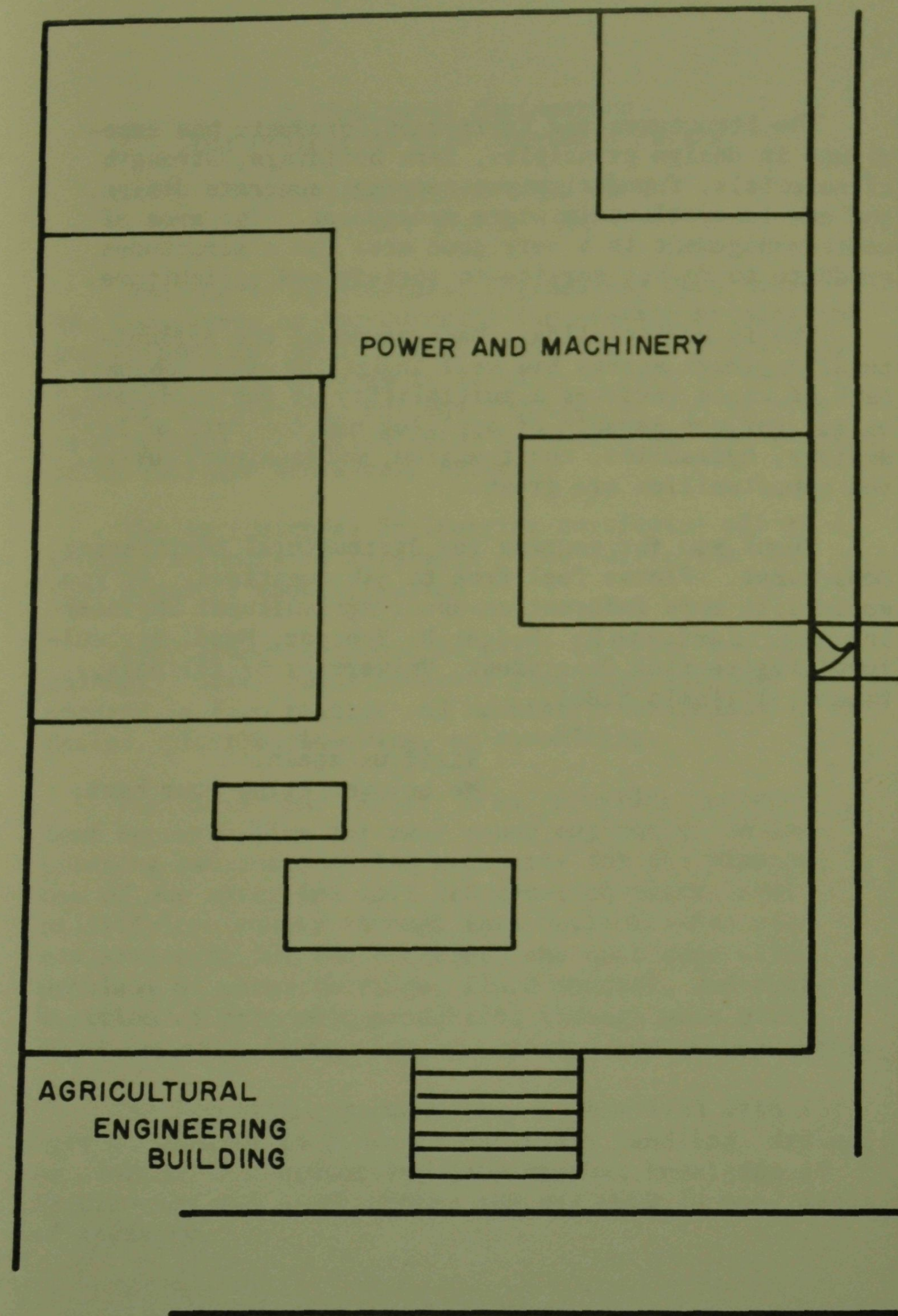
The Processing graduate may be involved with any sort of problem in grain or materials handling, drying, or storage. The processing graduate has knowledge of electronics and psychrometry and may work in many areas of industry.

The Structures and Environment graduate has experience in design principles, farm buildings, strength of materials, foundation engineering, concrete design, and new innovations in waste management. The area of waste management is a very good area for a structures graduate to do his service to society and agriculture.

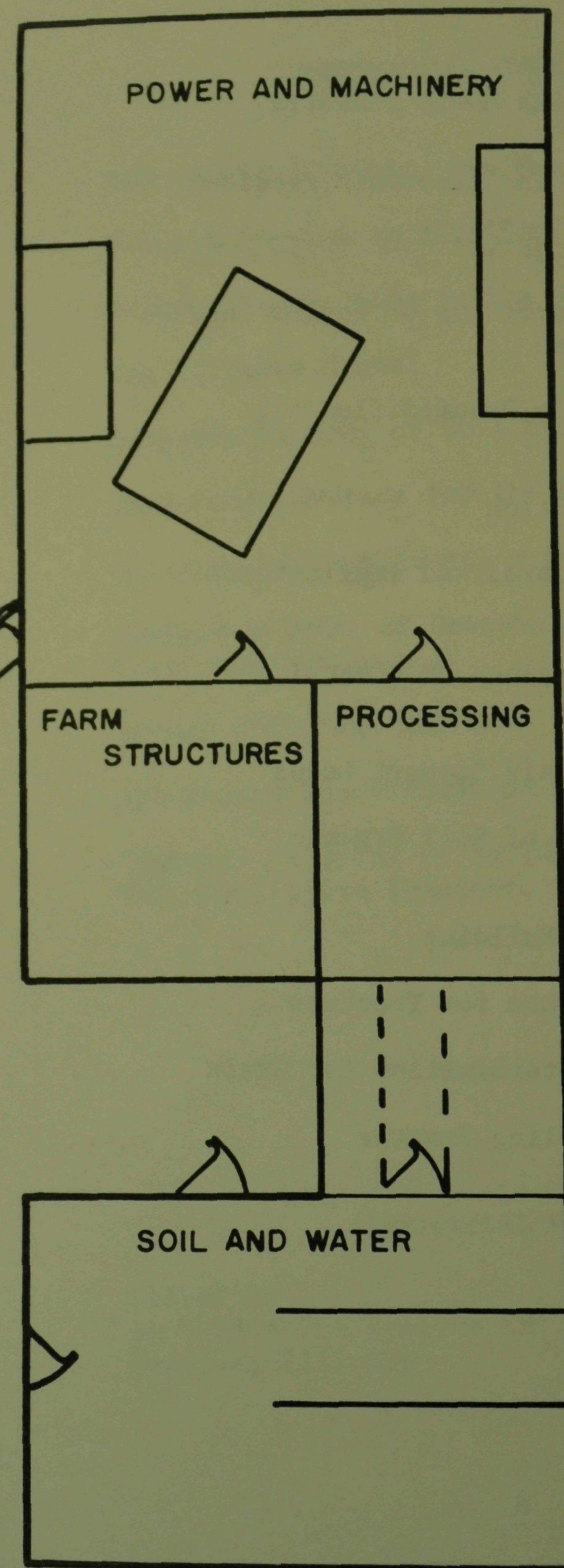
The interdisciplinary background of the agricultural engineer serves him well in dealing with problems, each of which involves a multiplicity of public interests. For men capable of applying new concepts of hydrology, hydraulics, construction, and machinery design, the opportunities are great.

Thank you for touring the Agricultural Engineering Department. Please feel free to ask questions. If you would like more information about Agricultural Engineering, please write to Dr. Rodger R. Yoerger, Head, Agricultural Engineering Department, University of Illinois, Urbana, Illinois 61801.

Visit us again.
We enjoyed being your host.



X BUS STOP



AG. ENGR. RESEARCH LAB.

ENGINEERING OPEN HOUSE EXHIBITS

Automatic Controls for Livestock Feeding
Combines for the Eighties
Electrochemical Conversion of Wastes into Protein and Hydrogen
Energy Efficiency in Dehumidified Air Grain Drying
Fuel Alcohol Production
Grain Grading Standards and Implications of Change
Operating Diesel Engines on Ethanol and Diesel Fuel
Trusses to Efficiently Support Loads
Close Range Sensing of Soil Organic Matter
Solar Grain Bin-In-Building
The Fuel of the Future for Tractors
Moisture Content Determination for Grain
ASAE Micro-Mini Pulling Tractor

ENGINEERING OPEN HOUSE EXHIBITS

SED Model 916 Grain Loss Monitor
Control Droplet Application of Pesticides
Energy Conservation in the Home
The Illinois Cartel
Computer Control of Soil Bin
Farm Power Systems for the Eighties
Solar Energy Applications in Animal Housing
Surface Heating of Greenhouse using Power Plant Cooling Water
Energy Efficient Engines
Electronic Identification of Cattle
Computer Modeling of Soil-Tire Interactions for Two-Wheel Drive Tractors.

Industrial Exhibits

Illini FS
Ag Production Systems and Supplies
Pesotum, Illinois

"HIGHLIGHTS"

Movie: Heritage and Horizons

Micro-Mini Tractor Demonstration
will take place at 1:00 PM,
Saturday March 8th in the
Tractor Lab

Industrial Exhibits

Caterpillar Tractor Company
Peoria, Illinois

Soil Conservation Service
Champaign, Illinois

Allerton Implement Company
John Deere Equipment
Allerton, Illinois

Birkey's Farm Store Inc.
Steiger Equipment
Rantoul, Illinois

Champaign County Power and Equipment
International Harvester Equipment
Urbana, Illinois

Massey Ferguson Incorporated
Massey Ferguson Equipment
Urbana, Illinois